

**VIRTUAL REALITY APPLICATIONS IN
MALAYSIAN'S SCHOOL SUBJECT: GEOGRAPHY
AND CHEMISTRY**

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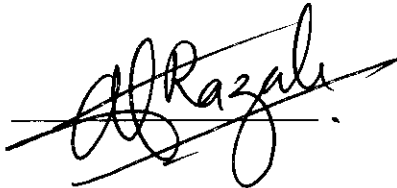
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Abstrak

Kajian ini telah menekankan tentang penggunaan realiti maya sebagai alat penyampaian pengajaran yang sangat berkesan di dalam silibus pengajaran di sekolah-sekolah di Malaysia. Antara mata pelajaran yang dikaji kandungan dan penggunaan reality maya padanya ialah Geografi dan Kimia. Dua pendekatan berbeza boleh digunakan iaitu realiti maya panorama (Panoramic Virtual Reality) dan juga realiti maya menggunakan bahasa permodelan realiti maya (Virtual Reality Modeling Language). Antara perkara penting yang dikenalpasti ialah kemudahan menggunakan realiti maya non-immersive pada peringkat sekolah rendah dan menengah boleh didapati dengan kos yang rendah berbanding realiti maya immersive. Hasil kajian ini juga mendapati bahawa VRML dan realiti maya panorama, walaupun ringkas, dapat membantu meningkatkan kefahaman dan daya ingatan para pelajar.

Abstract

This research has been emphasizing on the use of virtual reality as an education-delivering tool that is very powerful in the Malaysian's schools syllabuses context. Among the subjects that is studied its contents and VR application in them were Geography and Chemistry. Two different approaches were found to be suitable for this purposes that are Panoramic Virtual Reality and Virtual Reality Modeling Language. Among the significant thing that was found were the facilities to apply non-immersive VR in the primary and secondary school is less in cost compared to immersive VR. It is also found that VRML and panoramic view VR, though it is simple, they are able to help the students to increase their memory as well as their understanding.

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CHAPTER 1: INTRODUCTION TO THE RESEARCH

1.1 Introduction

In the process of developing a nation, education is one of the major aspects to be stressed upon. It is one way of getting goals to be achieved. While teenagers or the youngsters are the future leader of a nation, their learning activities are among the things that are important to be discussed. Now, with the education being in the highlight of the nation's precedence, the process of delivering it should be the main concern.

This is true to the tools utilized too. It is for the reason that through the right processes and tools, efficient education could be more than what builds the strength of our future leaders. Since 1995¹, a major change, which is quite revolutionary, has been made in Malaysian education system. From the traditional means of going through educational process simply to teach the students few simple things to move on in live, the system has shifted to a more market-sensitive educational system. In this new system, not only the curriculum and programs are focused towards the needs of the global market, but also more concern are given to the way it is delivered.

¹ <http://202.190.218.3/smartschool/resources.html>

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